



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EGW-4-LED-14L-DA-S-50-80.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 3612

[TESTLAB] TUV SUD America

[TESTDATE] 12/11/2018 9:35:21 AM

[ISSUEDATE] 03/11/21

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] EGW-4-LED-14L-DA-S-50-80

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[OTHER] SCALED FROM ORIGINAL TEST DATA

[SEARCH\_SOURCETYPE] LED

[SEARCH\_APPLICATION] Indoor

[SEARCH\_COLORTEMP] 5000

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14129
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	95
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.33 ft



### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10874	9409	9179
55	9371	7640	7532
65	9322	5904	5515
75	8591	4707	3478
85	8298	3138	1444

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	4727	4727	4727	4727	4727	4727	4727	4727	4727	4727
2.5	4891	4842	4707	4583	4546	4583	4707	4842	4891	4842
5.0	4875	4828	4693	4573	4549	4573	4693	4828	4875	4828
7.5	4852	4810	4683	4563	4543	4563	4683	4810	4852	4810
10.0	4819	4778	4658	4535	4525	4535	4658	4778	4819	4778
12.5	4779	4737	4625	4512	4497	4512	4625	4737	4779	4737
15.0	4726	4689	4584	4476	4467	4476	4584	4689	4726	4689
17.5	4664	4630	4533	4436	4429	4436	4533	4630	4664	4630
20.0	4587	4555	4471	4379	4381	4379	4471	4555	4587	4555
22.5	4502	4473	4398	4312	4327	4312	4398	4473	4502	4473
25.0	4403	4378	4314	4242	4255	4242	4314	4378	4403	4378
27.5	4295	4272	4221	4158	4170	4158	4221	4272	4295	4272
30.0	4172	4154	4119	4067	4074	4067	4119	4154	4172	4154
32.5	4038	4027	4004	3962	3964	3962	4004	4027	4038	4027
35.0	3888	3885	3876	3842	3844	3842	3876	3885	3888	3885
37.5	3719	3724	3727	3709	3708	3709	3727	3724	3719	3724
40.0	3534	3550	3567	3558	3558	3558	3567	3550	3534	3550
42.5	3328	3357	3394	3391	3395	3391	3394	3357	3328	3357
45.0	3098	3142	3203	3211	3218	3211	3203	3142	3098	3142
47.5	2859	2913	3002	3019	3023	3019	3002	2913	2859	2913
50.0	2623	2676	2784	2814	2813	2814	2784	2676	2623	2676
52.5	2409	2443	2552	2599	2592	2599	2552	2443	2409	2443
55.0	2237	2233	2315	2375	2371	2375	2315	2233	2237	2233
57.5	2109	2064	2087	2154	2144	2154	2087	2064	2109	2064
60.0	1993	1931	1874	1934	1918	1934	1874	1931	1993	1931
62.5	1870	1807	1682	1716	1700	1716	1682	1807	1870	1807
65.0	1727	1675	1514	1505	1486	1505	1514	1675	1727	1675
67.5	1571	1532	1365	1310	1285	1310	1365	1532	1571	1532
70.0	1405	1381	1225	1127	1095	1127	1225	1381	1405	1381
72.5	1240	1225	1091	949	915	949	1091	1225	1240	1225
75.0	1084	1068	951	793	751	793	951	1068	1084	1068
77.5	917	908	811	653	599	653	811	908	917	908
80.0	779	767	679	522	459	522	679	767	779	767
82.5	650	634	556	402	332	402	556	634	650	634
85.0	525	511	444	302	225	302	444	511	525	511
87.5	414	404	348	225	147	225	348	404	414	404
90.0	319	314	271	174	110	174	271	314	319	314
92.5	245	242	214	143	99	143	214	242	245	242
95.0	193	191	174	125	93	125	174	191	193	191
97.5	157	157	146	112	89	112	146	157	157	157
100.0	136	136	128	100	86	100	128	136	136	136
102.5	123	123	115	91	81	91	115	123	123	123
105.0	115	114	105	83	76	83	105	114	115	114
107.5	109	108	98	76	70	76	98	108	109	108
110.0	105	102	91	69	63	69	91	102	105	102
112.5	100	97	85	61	56	61	85	97	100	97
115.0	96	93	80	54	49	54	80	93	96	93
117.5	92	88	74	47	43	47	74	88	92	88
120.0	88	83	68	40	38	40	68	83	88	83
122.5	83	78	63	35	33	35	63	78	83	78
125.0	78	73	56	29	29	29	56	73	78	73
127.5	73	67	50	24	25	24	50	67	73	67
130.0	67	61	44	21	22	21	44	61	67	61
132.5	61	55	38	18	20	18	38	55	61	55

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**CANDELA TABULATION - (Cont.)**

135.0	55	49	33	16	18	16	33	49	55	49
137.5	49	43	27	15	16	15	27	43	49	43
140.0	43	37	22	13	14	13	22	37	43	37
142.5	38	32	18	12	13	12	18	32	38	32
145.0	32	27	14	11	12	11	14	27	32	27
147.5	27	22	12	11	11	11	12	22	27	22
150.0	22	18	10	10	10	10	10	18	22	18
152.5	17	14	10	9	10	9	10	14	17	14
155.0	14	12	10	9	10	9	10	12	14	12
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	4727	4727	4727	4727	4727	4727	4727
2.5	4707	4583	4546	4583	4707	4842	4891
5.0	4693	4573	4549	4573	4693	4828	4875
7.5	4683	4563	4543	4563	4683	4810	4852
10.0	4658	4535	4525	4535	4658	4778	4819
12.5	4625	4512	4497	4512	4625	4737	4779
15.0	4584	4476	4467	4476	4584	4689	4726
17.5	4533	4436	4429	4436	4533	4630	4664
20.0	4471	4379	4381	4379	4471	4555	4587
22.5	4398	4312	4327	4312	4398	4473	4502
25.0	4314	4242	4255	4242	4314	4378	4403
27.5	4221	4158	4170	4158	4221	4272	4295
30.0	4119	4067	4074	4067	4119	4154	4172
32.5	4004	3962	3964	3962	4004	4027	4038
35.0	3876	3842	3844	3842	3876	3885	3888
37.5	3727	3709	3708	3709	3727	3724	3719
40.0	3567	3558	3558	3558	3567	3550	3534
42.5	3394	3391	3395	3391	3394	3357	3328
45.0	3203	3211	3218	3211	3203	3142	3098
47.5	3002	3019	3023	3019	3002	2913	2859
50.0	2784	2814	2813	2814	2784	2676	2623
52.5	2552	2599	2592	2599	2552	2443	2409
55.0	2315	2375	2371	2375	2315	2233	2237
57.5	2087	2154	2144	2154	2087	2064	2109
60.0	1874	1934	1918	1934	1874	1931	1993
62.5	1682	1716	1700	1716	1682	1807	1870
65.0	1514	1505	1486	1505	1514	1675	1727
67.5	1365	1310	1285	1310	1365	1532	1571
70.0	1225	1127	1095	1127	1225	1381	1405
72.5	1091	949	915	949	1091	1225	1240
75.0	951	793	751	793	951	1068	1084
77.5	811	653	599	653	811	908	917
80.0	679	522	459	522	679	767	779

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82.5	556	402	332	402	556	634	650
85.0	444	302	225	302	444	511	525
87.5	348	225	147	225	348	404	414
90.0	271	174	110	174	271	314	319
92.5	214	143	99	143	214	242	245
95.0	174	125	93	125	174	191	193
97.5	146	112	89	112	146	157	157
100.0	128	100	86	100	128	136	136
102.5	115	91	81	91	115	123	123
105.0	105	83	76	83	105	114	115
107.5	98	76	70	76	98	108	109
110.0	91	69	63	69	91	102	105
112.5	85	61	56	61	85	97	100
115.0	80	54	49	54	80	93	96
117.5	74	47	43	47	74	88	92
120.0	68	40	38	40	68	83	88
122.5	63	35	33	35	63	78	83
125.0	56	29	29	29	56	73	78
127.5	50	24	25	24	50	67	73
130.0	44	21	22	21	44	61	67
132.5	38	18	20	18	38	55	61
135.0	33	16	18	16	33	49	55
137.5	27	15	16	15	27	43	49
140.0	22	13	14	13	22	37	43
142.5	18	12	13	12	18	32	38
145.0	14	11	12	11	14	27	32
147.5	12	11	11	11	12	22	27
150.0	10	10	10	10	10	18	22
152.5	10	9	10	9	10	14	17
155.0	10	9	10	9	10	12	14
157.5	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1743.07	N.A.	12.30
0-30	3732.03	N.A.	26.40
0-40	6146.82	N.A.	43.50
0-60	10665.23	N.A.	75.50
0-80	13216.91	N.A.	93.50
0-90	13676.85	N.A.	96.80
10-90	13229.17	N.A.	93.60
20-40	4403.76	N.A.	31.20
20-50	6849.18	N.A.	48.50
40-70	6081.48	N.A.	43.00
60-80	2551.68	N.A.	18.10
70-80	988.60	N.A.	7.00
80-90	459.94	N.A.	3.30
90-110	288.57	N.A.	2.00
90-120	362.98	N.A.	2.60
90-130	410.69	N.A.	2.90
90-150	449.00	N.A.	3.20
90-180	452.60	N.A.	3.20
110-180	164.03	N.A.	1.20
0-180	14129.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	447.68
10-20	1295.39
20-30	1988.96
30-40	2414.79
40-50	2445.42
50-60	2072.99
60-70	1563.08
70-80	988.60
80-90	459.94
90-100	181.97
100-110	106.61
110-120	74.40
120-130	47.72
130-140	26.27
140-150	12.03
150-160	3.61
160-170	0.00
170-180	0.00

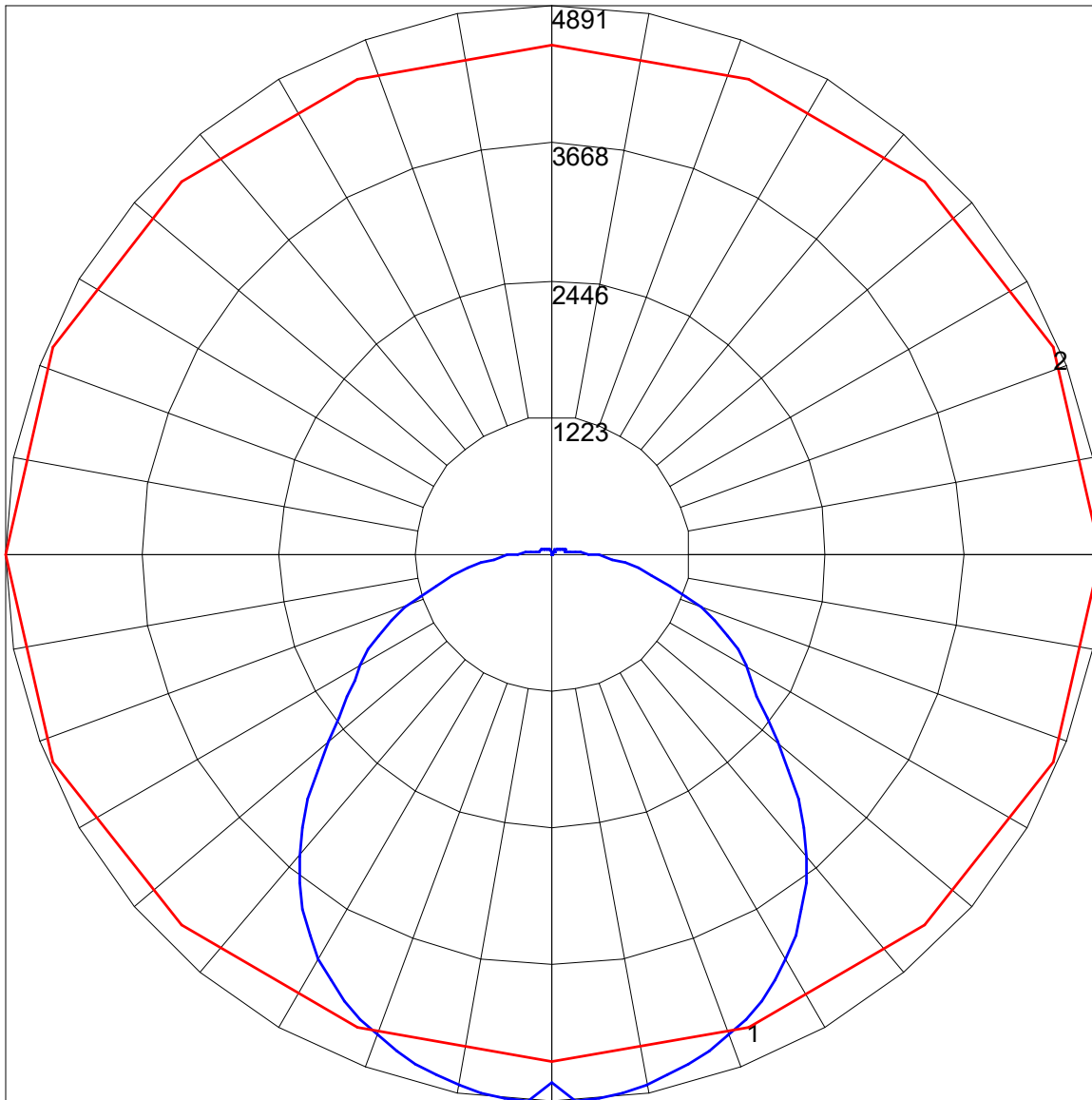
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	98	94	104	100	96	92	95	92	89	91	88	85	86	84	82	80
2	98	89	82	76	95	87	81	75	83	78	73	79	75	71	76	72	69	67
3	89	78	70	64	86	77	69	63	73	67	61	70	64	60	67	62	58	56
4	82	70	61	54	79	68	60	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	48	44	41
6	69	56	47	41	67	55	46	40	53	45	40	51	44	39	49	43	38	36
7	64	51	42	36	62	50	41	36	48	41	35	46	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	42	36	31	41	35	31	29
9	56	42	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 4891 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)